

AUTHOR INDEX

- Ablan, M.C.A., *see* Pante, M.J.R. et al.
- Alestrøm, P., *see* Rokkones, E. et al.
- Bailey, J.K. and Friars, G.W. (St. Andrews, N.B., Canada)
Inheritance of age at smolting in hatchery-reared Atlantic salmon (*Salmo salar*)
(Abstract) 317
- Bailey, J.K., *see also* Friars, G.W. et al.
- Basiao, Z.U. (Rizal, The Philippines) and Doyle, R.W. (Halifax, N.S., Canada)
Interaction between test and reference populations when tilapia strains are compared by
the "internal control" technique 207
- Beaumont, A.R. and Contaris, M.H. (Menai Bridge, Great Britain)
Production of triploid embryos of *Tapes semidecussatus* by the use of cytochalasin B
(Abstract) 317
- Beeching, A.J., *see* Penman, D.J. et al.
- Behrends, L.L., Kingsley, J.B. and Bulls, M.J. (Muscle Shoals, AL, U.S.A.)
Cold tolerance in maternal mouthbrooding tilapias: phenotypic variation among species
and hybrids 271
- Benfey, T.J., Dye, H.M. and Donaldson, E.M. (West Vancouver, B.C., Canada)
Induced vitellogenesis in triploid coho salmon (*Oncorhynchus kisutch*) (Abstract) 318
- Bimbao, M.A.P., *see* Pante, M.J.R. et al.
- Blanc, F. and Jaziri, H. (Montpellier, France)
Variation of allozymic polymorphism in *Ostrea angasi* and *O. edulis* (Abstract) 331
- Brummett, R.E., *see* Dunham, R.A. et al.
- Brun, E., *see* Røed, K.H. et al.
- Bulls, M.J., *see* Behrends, L.L. et al.
- Capili, J.B., *see* Pante, M.J.R. et al.
- Carmichael, G.J., *see* Williamson, J.H. and Carmichael, G.J.
- Chen Hongxi, Liu Peilin, Yi Yonglan and Liu Hanqin (Wuhan, China)
Viable nuclear-cytoplasmic hybrids are obtained by electrofusion (Abstract) 328
- Chen Rongde, *see* Wu Chingjiang et al.
- Chevassus, B. and Dorson, M. (Jouy-en-Josas, France)
Genetics of resistance to disease in fishes 83
- Chia, E.K.W., *see* Phang, V.P.E. and Chia, E.K.W.
- Contaris, M.H., *see* Beaumont, A.R. and Contaris, M.H.
- Coombs, K.A., *see* Friars, G.W. et al.
- Dahle, G. (Bergen, Norway)
Restriction endonuclease analysis of mitochondrial DNA from cod (*Gadus morhua*)
(Abstract) 318
- Dahle, G., *see also* Skaala, Ø. et al.
- Delabbio, J.L., Glebe, B.D. and Sreedharan, A. (St. Andrews, N.B., Canada)
Variation in growth and survival between two anadromous strains of Canadian Arctic
charr (*Salvelinus alpinus*) during long-term saltwater rearing 259
- Dillion, R.T., Jr., *see* Harris, S.E.G. et al.
- Donaldson, E.M., *see* Benfey, T.J. et al.
- Dorson, M., *see* Chevassus, B. and Dorson, M.
- Doyle, R.W., *see* Basiao, Z.U. and Doyle, R.W.; Eknath, A.E. and Doyle, R.W.; Robinson,
B.W. and Doyle, R.W.
- Dunham, R.A., Brummett, R.E., Ella, M.O. and Smitherman, R.O. (Auburn, AL, U.S.A.)
Genotype-environment interactions for growth of blue, channel and hybrid catfish in
ponds and cages at varying densities 143

- Dye, H.M., *see* Benfey, T.J. et al.
 Egberts, E., *see* Stet, R.J.M. et al.
 Egidius, E., *see* Jørstad, K.E. et al.
 Eiken, H.G., *see* Fjose, A. et al.
 Eknath, A.E. (Metro Manila, The Philippines) and Doyle, R.W. (Halifax, N.S., Canada)
 Effective population size and rate of inbreeding in aquaculture of Indian major carps 293
 Ella, M.O., *see* Dunham, R.A. et al.
 Ervik, A., *see* Jørstad, K.E. et al.
 Faras, A.J., *see* Yoon, S.J. et al.
 Farestveit, E., *see* Jørstad, K.E. et al.
 Fernando, A.A. (Singapore) and Phang, V.P.E. (Kent Ridge, Singapore)
 Colour pattern inheritance in three domesticated varieties of guppy, *Poecilia reticulata*
 (Abstract) 320
 Fernando, A.A., *see also* Phang, V.P.E. et al.
 Fjose, A., Eiken, H.G., Njølstad, P.R., Molven, A. and Hordvik, I. (Bergen, Norway)
 Homeobox sequences of Atlantic salmon (*Salmo salar*) and zebrafish (*Brachydanio rerio*) 51
 Friars, G.W., Bailey, J.K. and Coombs, K.A. (St. Andrews, N.B., Canada)
 Correlated responses to selection for grilse length in Atlantic salmon 171
 Friars, G.W., *see also* Bailey, J.K. and Friars, G.W.
 Fujio, Y., *see* Macaranas, J. and Fujio, Y.
 Gaffney, P.M. (Lewes, DE, U.S.A.)
 Breeding designs for bivalve molluscs (Abstract) 321
 Gall, G.A.E. (Davis, CA, U.S.A.)
 Basis for evaluating breeding plans 125
 Gautvik, K.M., *see* Rokkones, E. et al.
 Gjødrem, T. (Ås, Norway)
 Introduction ix
 Gjerde, J., *see* Jørstad, K.E. et al.
 Glebe, B.D., *see* Delabbio, J.L. et al.
 Gosling, E.M. and Nolan, A. (Galway, Ireland)
 Triploidy induction by thermal shock in the Manila clam, *Tapes semidecussatus*
 (Abstract) 324
 Gross, M.L., *see* Yoon, S.J. et al.
 Guise, K.S., *see* Yoon, S.J. et al.
 Hackett, P.B., *see* Yoon, S.J. et al.
 Hallerman, E.M., *see* Yoon, S.J. et al.
 Harris, S.E.G., Dillion, R.T., Jr., Sandifer, P.A. (Charleston, SC, U.S.A.) and Lester, L.J. (Houston, TX, U.S.A.)
 Electrophoresis of isozymes in cultured *Penaeus vannamei* (Abstract) 330
 Hatanaka, H., *see* Taniguchi, N. et al.
 Hawes, R.O., Scully, K. and Hidu, H. (Orono, ME, U.S.A.)
 Growth rate of two diverse populations of American oysters, *Crassostrea virginica*, and their reciprocal crosses (Abstract) 327
 Herbinger, C.M. and Newkirk, G.F. (Halifax, N.S., Canada)
 Sources of family variability for maturation incidence in cultivated Atlantic salmon 153
 Hershberger, W.K., Myers, J.M. (Seattle, WA, U.S.A.), Iwamoto, R.N., McAuley, W.C. (Bremerton, WA, U.S.A.) and Saxton, A.M. (Baton Rouge, LA, U.S.A.)
 Genetic changes in the growth of coho salmon (*Oncorhynchus kisutch*) in marine net-pens, produced by ten years of selection 187

- Hershberger, W.K., *see also* Thorgaard, G.H. et al.
 Hidu, H., *see* Hawes, R.O. et al.
 Hindar, K. and Jónasson, J.E. (Trondheim, Norway)
 A comparison of allozyme and mitochondrial DNA variation in Atlantic salmon (*Salmo salar*) (Abstract) 330
 Hordvik, I., *see* Fjose, A. et al.
 Hörstgen-Schwark, G., *see* Von Hertell, U. et al.; Wedekind, H. et al.
 Huang, C.-M. (Taipei, Taiwan) and Liao, I.-C. (Keelung, Taiwan)
 Response to mass selection for growth rate in *Oreochromis niloticus* 199
 Huang Wenyu, *see* Wu Chingjiang et al.
 Huisman, E.A., *see* Komen, J. et al.
 Iwamoto, R.N., *see* Hershberger, W.K. et al.
 Jaziri, H., *see* Blanc, F. and Jaziri, H.
 Jónasson, J.E., *see* Hindar, K. and Jónasson, J.E.
 Jørstad, K.E., Lerøy, R., Ervik, A., Farestveit, E., Egidius, E. (Bergen, Norway) and Gjerde, J. (Solheimsvik, Norway)
 Ranking of salmon sib groups under different environmental conditions and disease incidence (Abstract) 322
 Jørstad, K.E., *see also* Skaala, Ø. et al.
 Jung, B., *see* Von Hertell, U. et al.
 Kaastrup, P., *see* Stet, R.J.M. et al.
 Kapuscinski, A.R., *see* Nelson, D.M. and Kapuscinski, A.R.; Yoon, S.J. et al.
 Kingsley, J.B., *see* Behrends, L.L. et al.
 Komaru, A., *see* Wada, K.T. et al.
 Komen, J., Richter, C.J.J., Van Muiswinkel, W.B. and Huisman, E.A. (Wageningen, The Netherlands)
 The effects of inbreeding in gynogenetic carp, *Cyprinus carpio* L., and the production of homozygous and heterozygous clones (Abstract) 332
 Langholz, H.-J., *see* Von Hertell, U. et al.; Wedekind, H. et al.
 Larsen, H.J., *see* Røed, K.H. et al.
 Lawson, K.S., *see* Lester, L.J. and Lawson, K.S.
 Lerøy, R., *see* Jørstad, K.E. et al.
 Lester, L.J. and Lawson, K.S. (Houston, TX, U.S.A.)
 Inheritance of size as estimated by principal component analysis at two temperatures in *Penaeus vannamei* (Abstract) 323
 Lester, L.J., *see also* Harris, S.E.G. et al.
 Liao, I.-C., *see* Huang, C.-M. and Liao, I.-C.
 Lillevik, K.M., *see* Rye, M. and Lillevik, K.M.
 Liu Aizhu, *see* Xia Dequan et al.
 Liu Hanqin, *see* Chen Hongxi et al.
 Liu Peilin, *see* Chen Hongxi et al.
 Liu, Z., *see* Yoon, S.J. et al.
 Macaranas, J. (Quezon City, The Philippines) and Fujio, Y. (Sendai-shi, Japan)
 Strain differences in cultured fish - isozymes and performance traits as indicators 69
 Macaranas, J.M., *see also* Pante, M.J.R. et al.
 Maclean, N. and Penman, D. (Southampton, Great Britain)
 The application of gene manipulation to aquaculture 1
 Maclean, N., *see also* Penman, D.J. et al.
 McAuley, W.C., *see* Hershberger, W.K. et al.
 Molven, A., *see* Fjose, A. et al.
 Myers, J.M., *see* Hershberger, W.K. et al.; Thorgaard, G.H. et al.

- Naevdal, G., *see* Skaala, Ø. et al.
- Nelson, D.M. and Kapuscinski, A.R. (St. Paul, MN, U.S.A.)
 Application of diallele crosses to lake trout (*Salvelinus namaycush*) stock evaluation
 (Abstract) 322
- Newkirk, G.F., *see* Herbing, C.M. and Newkirk, G.F.; Ruzzante, D.E. and Newkirk, G.F.
- Njølstad, P.R., *see* Fjose, A. et al.
- Nolan, A., *see* Gosling, E.M. and Nolan, A.
- Pante, M.J.R., Macaranas, J.M. (Quezon City, The Philippines), Capili, J.B. (Metro Manila, The Philippines), Tayamen, M.M. (Nueva Ecija, The Philippines), Bimbao, M.A.P. (Metro Manila, The Philippines), Ablan, M.C.A. (Quezon City, The Philippines) and Pullin, R.S.V. (Metro Manila, The Philippines)
 Development of research methods to evaluate Nile tilapia (*Oreochromis niloticus*) strains in The Philippines 324
- Penman, D.J., Beeching, A.J., Penn, S. and Maclean, N. (Southampton, Great Britain)
 Factors affecting survival and integration following microinjection of novel DNA into rainbow trout eggs 35
- Penman, D., *see also* Maclean, N. and Penman, D.
- Penn, S., *see* Penman, D.J. et al.
- Phang, V.P.E. and Chia, E.K.W. (Kent Ridge, Singapore)
 Quantitative male sexual behavior of guppy varieties (*Poecilia reticulata*) under competitive and non-competitive environments (Abstract) 319
- Phang, V.P.E., Teo, C.C. (Kent Ridge, Singapore) and Fernando, A.A. (Sembawang Field Station, Singapore)
 Relationships between growth and colour pattern genes in three strains of the guppy (*Poecilia reticulata*) under intra- and interstrain competition (Abstract) 319
- Phang, V.P.E., *see also* Fernando, A.A. and Phang, V.P.E.
- Pullin, R.S.V., *see* Pante, M.J.R. et al.
- Refstie, T. (Sunndalsøra, Norway)
 Application of breeding schemes 163
see also Røed, K.H. et al.
- Richter, C.J.J., *see* Komen, J. et al.
- Robinson, B.W. and Doyle, R.W. (Halifax, N.S., Canada)
 Phenotypic correlations among behavior and growth variables in tilapia: implications for domestication selection 177
- Røed, K.H., Brun, E., Larsen, H.J. (Oslo, Norway) and Refstie, T. (Sunndalsøra, Norway)
 The genetic influence on serum haemolytic activity in rainbow trout 109
- Rokkones, E. (Oslo, Norway), Alestrøm, P., Skjervold, H. (Ås, Norway) and Gautvik, K.M. (Oslo, Norway)
 Expression of human growth hormone gene in fertilized eggs from Atlantic salmon and rainbow trout (Abstract) 329
- Ruzzante, D.E. and Newkirk, G.F. (Halifax, N.S., Canada)
 Selection for growth rate in the European oyster, *Ostrea edulis*: a multivariate approach (Abstract) 333
- Rye, M. (Ås, Norway) and Lillevik, K.M. (Stavanger, Norway)
 Survival in the early fresh-water period in Atlantic salmon (*Salmo salar*) and rainbow trout (*Salmo gairdneri*): heritabilities for survival and genetic correlation between survival and growth (Abstract) 328
- Sandifer, P.A., *see* Harris, S.E.G. et al.
- Saxton, A.M., *see* Hershberger, W.K. et al.
- Scheerer, P.D., *see* Thorgaard, G.H. et al.
- Schneider, J.F., *see* Yoon, S.J. et al.

- Scully, K., *see* Hawes, R.O. et al.
- Seki, S., *see* Taniguchi, N. et al.
- Skaala, Ø., Dahle, G., Jørstad, K.E. and Naevdal, G. (Bergen, Norway)
Interactions between natural and farmed fish populations: information from genetic markers (Abstract) 325
- Skjervold, H., *see* Rokkones, E. et al.
- Smitherman, R.O., *see* Dunham, R.A. et al.
- Sreedharan, A., *see* Delabbio, J.L. et al.
- Stet, R.J.M., Kaastrup, P., Egberts, E. and Van Muiswinkel, W.B. (Wageningen, The Netherlands)
Characterization of new immunogenetic markers using carp alloantisera: evidence for the presence of major histocompatibility complex (MHC) molecules 119
- Sun Yu, *see* Xia Dequan et al.
- Taniguchi, N., Hatanaka, H. and Seki, S. (Nankoku, Japan)
Genetic variation in quantitative characters of meiotic- and mitotic-gynogenetic diploid ayu, *Plecoglossus altivelis* 223
- Tayamen, M.M., *see* Pante, M.J.R. et al.
- Teo, C.C., *see* Phang, V.P.E. et al.
- Thorgaard, G.H., Scheerer, P.D. (Pullman, WA, U.S.A.), Hershberger, W.K. and Myers, J.M. (Seattle, WA, U.S.A.)
Androgenetic rainbow trout produced using sperm from tetraploid males show improved survival 215
- Tilseth, S. (Bergen, Norway)
New marine fish species for cold-water farming 235
- Uchimura, Y., *see* Wada, K.T. et al.
- Van Muiswinkel, W.B., *see* Komen, J. et al.; Stet, R.J.M. et al.
- Villegas, C.T. (Iloilo, The Philippines)
Evaluation of the salinity tolerance of *Oreochromis mossambicus*, *O. niloticus* and their F₁ hybrids 281
- Von Hertell, U., Hörstgen-Schwark, G., Langholz, H.-J. (Göttingen, Federal Republic of Germany) and Jung, B. (Zeven, Federal Republic of Germany)
Family studies on genetic variability in growth and reproductive performance between and within test fish populations of the zebrafish, *Brachydanio rerio* 307
- Wada, K.T. (Nansei, Japan)
Inheritance of white coloration of the prismatic layer of shells in the Japanese pearl oyster, *Pinctada fucata martensii*, and its importance in the pearl culture industry (Abstract) 331
- Wada, K.T., Komaru, A. (Nansei, Japan) and Uchimura, Y. (Uwajima, Japan)
Triploid production in the Japanese pearl oyster, *Pinctada fucata martensii* (Abstract) . 325
- Wedekind, H., Hörstgen-Schwark, G. and Langholz, H.-J. (Göttingen, Federal Republic of Germany)
Investigations on sex ratio in *Oreochromis niloticus* (Abstract) 321
- Williamson, J.H. and Carmichael, G.J. (San Marcos, TX, U.S.A.)
An aquacultural evaluation of Florida, northern, and hybrid largemouth bass, *Micropterus salmoides* 247
- Withler, R.E. (Nanaimo, B.C., Canada)
Genetic consequences of salmonid egg fertilization techniques (Abstract) 326
- Wu Chingjiang (Wuhan, China)
Retrospects and prospects of fish genetics and breeding research in China 61
- Wu Chingjiang, Chen Rongde, Ye Yuzhen and Huang Wenyu (Wuhan, China)
Production of all-female carp and its application in fish cultivation (Abstract) 327

Wu Tingting, *see* Xia Dequan et al.

Xia Dequan, Liu Aizhu, Wu Tingting and Sun Yu (Wuxi, Jangsu, China)

Study of clones of commercial fish (Abstract) 327

Ye Yuzhen, *see* Wu Chingjiang et al.

Yi Yonglan, *see* Chen Hongxi et al.

Yoon, S.J., Hallerman, E.M., Gross, M.L., Liu, Z., Schneider, J.F., Faras, A.J., Hackett, P.B., Kapuscinski, A.R. and Guise, K.S. (St. Paul, MN, U.S.A.)

Transfer of the gene for neomycin resistance into goldfish, *Carassius auratus* 21

